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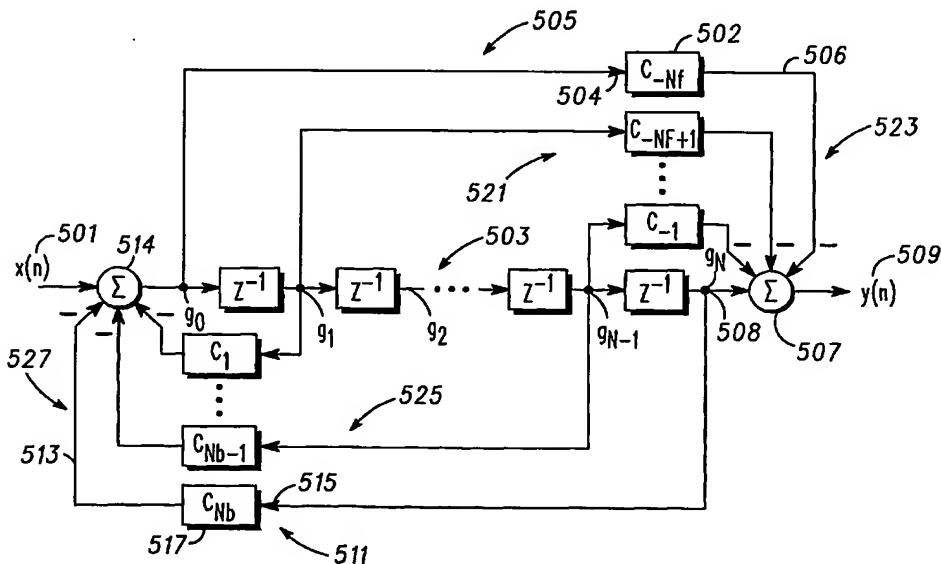
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(54) Title: DECISION FEED FORWARD EQUALIZER SYSTEM AND METHOD



(57) Abstract: An equalizer and corresponding methods is arranged and constructed to mitigate adverse effects of a wireless channel (300). The equalizer includes a delay line (503) coupled to an input signal (501) and comprising a delay circuit coupled to an output combiner (507) that is operable to provide an interim signal ( $g_0 \dots g_{N-1}$ ) and a feed forward circuit (505) coupled to the delay line and operable to provide a feed forward signal (506) that comprises a hard decision scaled according to a scaling factor corresponding to an estimate of channel parameters, wherein the output combiner is operable to combine the feed forward signal and the interim signal to provide an output signal (509) that is compensated for an adverse effect of the wireless channel on the input signal.

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